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(71) Applicant: **mitsui petrochem ind ltd**

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(74) Representative:

### (54) PRODUCTION OF TAXANE TYPE DITERPENE

(57) Abstract:

**PURPOSE:** To obtain the subject compound useful for treating ovarian, mammary, pulmonary cancers, etc., with good productivity by culturing a tissue, a cell, etc., of a plant capable of producing a taxane type diterpene using a gas containing oxygen and further gaseous carbon dioxide at a specific concentration.

**CONSTITUTION:** A tissue (e.g. a stem) of a plant (e.g. *Taxus brevifolia*) capable of producing a taxane type diterpene (e.g. taxol) is bedded on a solid culture medium containing gellan gum, etc., to carry out the stationary culture in the dark at 25°C. A callus is produced and the resultant cultured cell is transferred to a liquid culture medium and cultured at 25°C in the dark for 21 days under stirring while aerating a gas containing oxygen and further gaseous carbon dioxide at  $\geq 0.04\%$  concentration. The cell is then recovered by filtration and the recovered cell is freeze-dried to carry out the extraction with methanol, etc. The solvent is distilled away from the extract solution and the purification is performed according to the high-

performance liquid chromatography.  
Thereby, the objective taxane type  
diterpene useful as a therapeutic agent  
for ovarian, mammary, pulmonary  
cancers, etc., is obtained with  
improved productivity.

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⌘ Title: **JP8154694A2: PRODUCTION OF TAXANE TYPE DITERPENE**

⌘ Country: **JP Japan**

⌘ Kind: **A**

⌘ Inventor: **MATSUBARA KOICHI;**

⌘ Assignee: **mitsui petrochem ind ltd**  
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⌘ Published / Filed: **June 18, 1996 / Dec. 7, 1994**

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⌘ IPC Code: **C12P 17/02; C12N 1/00; C12N 5/04; A61K 35/78; C12P 17/02;**

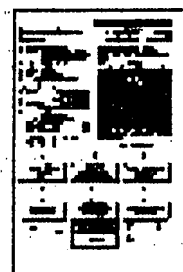
⌘ Priority Number: **Dec. 7, 1994 JP1994000304089**

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⌘ Family:

PDF	Publication	Pub. Date	Filed	Title
	<a href="#">JP8154694A2</a>	June 18, 1996	Dec. 7, 1994	PRODUCTION OF TAXANE TYPE DITERPENE
	<a href="#">JP3019736B2</a>	March 13, 2000	Dec. 7, 1994	
2 family members shown above				

⌘ Other Abstract Info:

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